

Abstracts only

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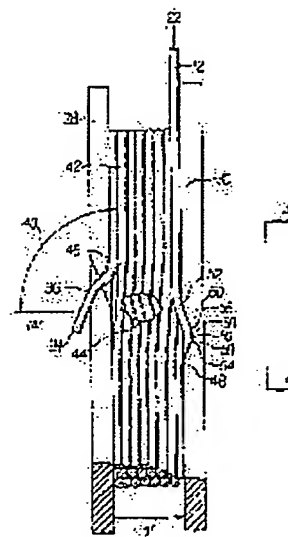
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(54) COIL FOR FIBER-OPTIC REVOLUTION SENSOR

(57)Abstract:

PURPOSE: To easily maintain a winding in opposite directions being desired by winding a continuous fiber having a uniform circular cross section in a cylindrical coil and forming grooves of each adjacent turns, and then, positioning the first section of each turn adjacent to the second section of each turn intersecting the first turn at angles and putting the first sections of the upper-layer turns in the grooves between each adjacent first sections of the lower-layer turns.

CONSTITUTION: The optical fiber 12 of a feeding segment 24 is brought to the outside of a flange through a hole 36 and the optical fiber from a feeding segment 22 rising from the preceding layer is perpendicularly wound in the first turns of the succeeding layer so that the angle 40 between the main section 42 of each turn and axial center 14 can become 90° . This arrangement can fix a considerable part of the turn length of the fiber by utilizing the grooves formed of each adjacent turns of adjacent coils layers. When the fiber is wound in the state of a coil in the above-mentioned way, both ends of the fiber are directed in the opposite directions at the part 44 shown in the Figure and can be maintained in an inverted state.



LEGAL STATUS

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